



KARLSRUHER NUKLIDKARTE – COMMEMORATION OF THE 50TH ANNIVERSARY

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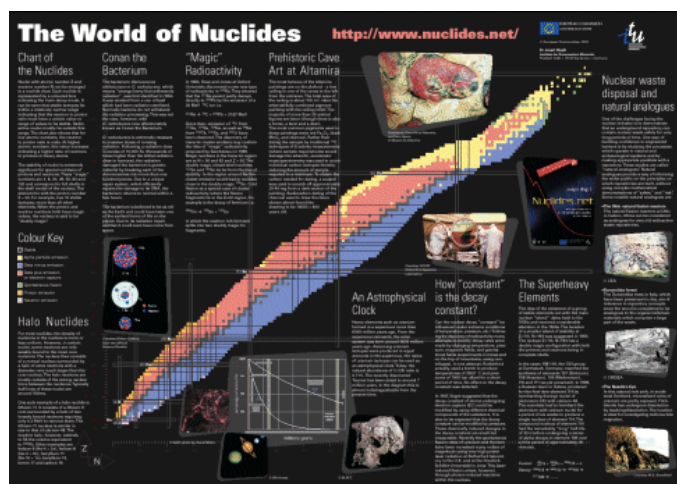
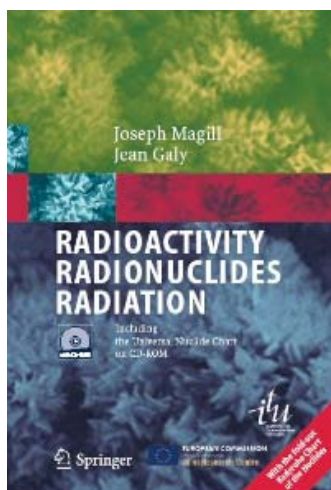
Nuclear Knowledge Management in Europe...

- Due to a general lack of interest in nuclear power over many years, particularly in Europe, there has been a gradual decline in the nuclear skills base. The nuclear field has become very much a “grey-haired profession” with an ageing population of nuclear professionals.
- Today, as a result of recent developments on issues such as energy security, nuclear security and protection of the environment, we are witnessing a resurgence of interest in nuclear power. In order to support this we will need a nuclear skills renaissance in knowledge management, education and training, in the nuclear field (there is also large range of “non-power” applications of radioisotopes and radiation in a variety of diverse fields such as medicine (e.g. cancer therapy), agriculture (e.g. pest population control), food irradiation (e.g. to increase shelf-life) and in industry (e.g. tracers, radiography, gauging, radiation processing, etc.), where such nuclear skills are also required.).
- To support this renaissance, at the JRC we are developing a nuclear skills “toolbox” to encompass the knowledge of generations of nuclear scientists (in the form of textbooks, databases, software applications, etc.) and support these developments with modern internet technology.

⇒ The Karlsruhe Nuklidkarte project is part of this endeavour!

JRC's nuclear skills toolbox (some highlights):

Textbooks & educational material:



"Nuclides" range of software products:



Websites: Nuclear Science Portal NUCLEONICA

and training courses:

Previous Training Courses

- 2.1 October 2008 Izmir
- 2.2 October 2008 Karlsruhe
- 2.3 October 2007 Karlsruhe
- 2.4 September 2006 Ljubljana
- 2.5 April 2006 Karlsruhe
- 2.6 September 2005 Ljubljana
- 2.7 April 2005 Karlsruhe
- 2.8 October 2004 Karlsruhe
- 2.9 April 2004 Karlsruhe
- 2.10 October 2003 Karlsruhe
- 2.11 September 2003 Karlsruhe

October 2008 Izmir

10th Nuclear Science Training Course with Nucleonica, 8/10th Oct. 2008, Cesme, Izmir, Turkey

The 10th Nuclear Science training course on Radioactivity, Radionuclides and Radiation with Nucleonica took place in the Altin Yunus Hotel, Cesme (near Izmir), Turkey, from the 8th to 10th October 2008. It was jointly organized by the European Commission/ITU Germany and the Ege University, Institute of Nuclear Science, Izmir, Turkey. In total 27 participants from Turkey (20), Macedonia (3), Czech Republik (2) and Russia (2) took part in the training course. A welcome address was given by M. S. Anaç, the vice rector of Ege University, an agricultural engineer with experience in nuclear tracer methods.

[Training Course Flyer \(with organisation committee\)](#)

[Final Agenda 6th Oct. 2008](#)

[Links to the presentations and exercises:](#)

[Nucleonica Overview \(J. Magill\)](#)

[Mass Activity Calculator \(J. Magill\) Exercises](#)

[Nucleonica Data Center \(J. Galy\) Exercises](#)

[Decay Engine \(J. Magill\) Exercises](#)

[Range & Stopping Power \(M. Tufan\) Exercises/Case Study](#)

[An Interactive Web Accessible Gamma-Spectrum Simulator \(A. Berlizov\) Exercises](#)

[Nuclear Power in Space \(T. Zagar\) Exercises](#)

[easyMonteCarlo \(A. Berlizov\) Exercises](#)

[Overview of the Institute of Nuclear Sciences, Izmir \(Prof. M. Eral, Director Institute of Nuclear Sciences\)](#)

[Nuclide Chart \(C. Normand\) Exercises](#)

[Nuclear Forensics & Illicit Trafficking \(K. Mayer\) Exercises](#)

[List of participants](#)

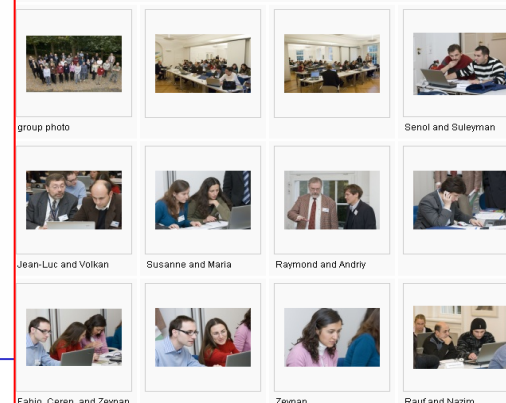
[Gallery](#)

[Testimonials](#)



10th Nucleonica training course at the Altin Yunus Hotel, Cesme (near Izmir), Turkey, 8-10 Oct. 2008

9th Nucleonica Training Course...



and, of course, the Karlsruhe Nuclide Chart:

Brochure and fold-out chart...

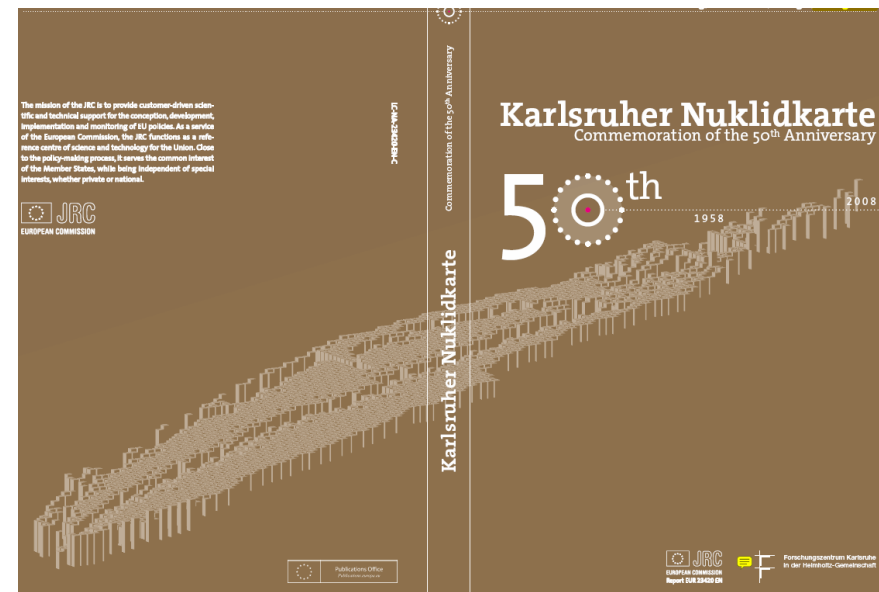


Brochure and fold-out chart...



Where are we in the nuclear landscape?

- With this commemorative publication, we have reached the "halfway" point on the journey to map out the nuclear landscape.
- As to the future, it will require another 50 years to finalise this map and complete the nuclide chart!
- As the journey continues, we look forward to future editions of the "Karlsruher Nuklidkarte" to provide a concise record of the many exciting discoveries which lie ahead and will be made by future generation.



Editors at work!

with Frau Pfennig, one
of the original authors

